

Title (en)

Ice dispenser for producing chip ice to deliver the same to user

Title (de)

Eisspender für die Erzeugung von Eissplittern zur Ausgabe derselben an Verbraucher

Title (fr)

Distributeur de glace pour fabriquer et livrer de la glace en copeaux au consommateur

Publication

EP 0893658 B1 20030102 (EN)

Application

EP 98113892 A 19980724

Priority

JP 20032197 A 19970725

Abstract (en)

[origin: EP0893658A2] An ice dispenser comprises an ice making device (11) including an auger (18) that rotates around a substantially vertical axis; a chip ice stocker (12) having a cylindrical wall (12a) formed around an agitator (21) that is attached to an upper end portion of the auger (18), and an opening formed on the cylindrical wall; and an opening open/closure device (26) including a shutter (27) pivotably joined to a bracket (32) that is attached to the cylindrical wall (12a) via a connecting shaft (33), a plunger (30) that is actuated at right angle to the connecting shaft (33) by the electromagnetic action of a solenoid (31) fixed on the bracket (32), and a link (29) for joining the shutter (27) and the plunger (30), a supporting pivot (38) attached to the link (29) parallel to the connecting shaft (33), a shutter lock arm (36) pivotably supported around the supporting pivot (38) and having a hollow portion (37) shaped so as to engage an outer peripheral surface of the connecting shaft (33), and shutter lock spring means (39) for locking the shutter (27) by applying spring force to the shutter lock arm (36) pivoted around the supporting pivot (38) thereby pressing the hollow portion (37) on the outer peripheral surface of the connecting shaft (33). The connecting shaft (33) is provided with a sleeve (40) formed from material which is softer than the shutter lock arm (36), and having an outer periphery surface which engages to the hollow portion (37). <IMAGE>

IPC 1-7

F25C 5/00; **F25C 1/14**

IPC 8 full level

F25C 1/14 (2006.01); **F25C 5/00** (2006.01)

CPC (source: EP US)

F25C 1/147 (2013.01 - EP US); **F25C 5/142** (2021.08 - EP US); **F25C 5/20** (2017.12 - EP US)

Cited by

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EP 0893658 A2 19990127; **EP 0893658 A3 19990804**; **EP 0893658 B1 20030102**; DE 69810396 D1 20030206; DE 69810396 T2 20030821; US 6009718 A 20000104

DOCDB simple family (application)

EP 98113892 A 19980724; DE 69810396 T 19980724; US 12186798 A 19980724